

Title (en)

EARLY WARNING METHOD AND APPARATUS FOR PRESENT VEHICLE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR FRÜHWARNUNG FÜR EIN VORHANDENES FAHRZEUG

Title (fr)

PROCÉDÉ ET APPAREIL D'ALERTE PRÉCOCE D'UN VÉHICULE ACTUEL

Publication

EP 4002323 A1 20220525 (EN)

Application

EP 20856199 A 20200826

Priority

- CN 201910792798 A 20190826
- CN 2020111510 W 20200826

Abstract (en)

An ego-vehicle warning method and apparatus are provided. The method includes: determining a nearby area of an ego-vehicle based on moving information of the ego-vehicle; performing target classification on vehicles surrounding the ego-vehicle to obtain nearby vehicles in a plurality of directions and remote vehicle sets in the plurality of directions; for any remote vehicle in a remote vehicle set, calculating a shortest distance between the remote vehicle and a nearby vehicle in each direction that matches a direction of the remote vehicle in the plurality of directions in a future time period, and recording a time T when the shortest distance is less than a threshold D; and sending alarm information to a driver of the ego-vehicle based on the recorded time T, where the alarm information is used to indicate to the driver that an accidental collision accident not caused by the ego-vehicle or another accidental collision accident may occur in a direction of the nearby vehicle corresponding to the earliest time T. The method is used to resolve a problem that a safety warning capability of the ego-vehicle is relatively low when an accidental danger not caused by the ego-vehicle occurs between vehicles surrounding the ego-vehicle.

IPC 8 full level

G08G 1/16 (2006.01); **B60Q 9/00** (2006.01)

CPC (source: CN EP US)

B60Q 9/008 (2013.01 - CN EP); **B60W 30/0956** (2013.01 - EP US); **B60W 40/114** (2013.01 - EP US); **B60W 50/14** (2013.01 - EP US); **G01S 13/931** (2013.01 - EP); **G01S 17/931** (2020.01 - EP); **G08G 1/163** (2013.01 - EP); **G08G 1/166** (2013.01 - EP); **B60W 2050/146** (2013.01 - EP US); **B60W 2554/80** (2020.02 - EP US); **B60W 2556/45** (2020.02 - EP US); **G01S 2013/9316** (2020.01 - EP); **G01S 2013/932** (2020.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 4002323 A1 20220525; **EP 4002323 A4 20220727**; **EP 4002323 B1 20240821**; CN 110588510 A 20191220; CN 110588510 B 20210907; US 11807261 B2 20231107; US 2022289223 A1 20220915; WO 2021037087 A1 20210304

DOCDB simple family (application)

EP 20856199 A 20200826; CN 201910792798 A 20190826; CN 2020111510 W 20200826; US 202017635809 A 20200826